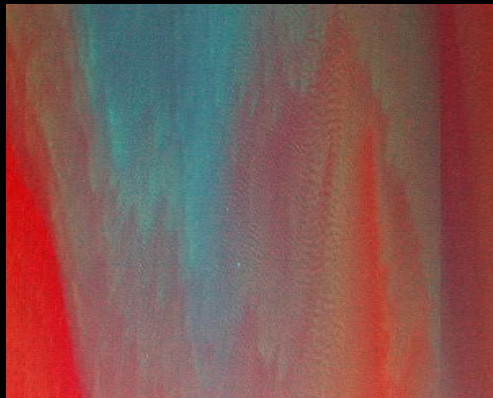
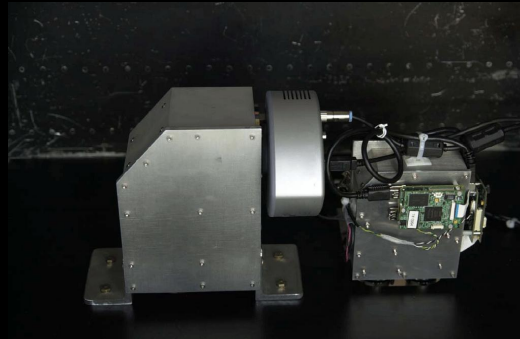


# Airborne Monitoring of Microcystis Blooms in the Great Lakes

- NASA GRC and NOAA Great Lakes Environmental Research lab have been collaboratively studying Microcystis bloom prediction through Hyperspectral Remote Imaging (HSI) since 2006
- HSI is capable of detection of Microcystis in low concentrations with spatial resolution of 2m – which is a key capability needed for bloom prediction



Two generations of  
GRC airborne HSI's



EPA Research Vessel  
concurrently obtaining water  
samples during Airborne HSI  
data acquisition



Processed HSI data of Microcystis Bloom  
with higher concentrations indicated by red  
and sediment is in blue (0.8 km x 1.4 km)